

CLAIMS

1. (After amendment) A die for forming a honeycomb body,  
the die comprising a plate having a predetermined size and  
5 provided with:

a plurality of cell blocks defined by a plurality of  
groovy slits on a front face thereof; and

a plurality of back holes on a back face thereof,  
each hole being communicatively connected with a  
10 predetermined slit,

wherein the plate is made of a cemented carbide  
material having wear resistance, the cemented carbide  
material being formed by compacting, followed by sintering  
at high temperature, metal carbide powder of transition  
15 metal element series with an iron group metal binder having  
toughness, a connection area ratio of the back hole and the  
cell block being 35 to 65% of the surface area of the plate.

2. A die for forming a honeycomb body according to claim  
1, wherein a height of the die is 2 to 5 mm.

20 3. (After amendment) A jig for forming a honeycomb body,  
the jig comprising:

a die for forming a honeycomb body, the die  
comprising a plate having a predetermined size and provided  
with a plurality of cell blocks defined by a plurality of  
25 groovy slits on a front face side thereof and a plurality  
of back holes on a back face thereof, each hole being  
communicatively connected with the slit,

a holding plate fixing a profile and size of the honeycomb body extruded from the die for forming the honeycomb body; and

5 a back holding plate controlling an amount of kneaded clay flowing into the back holes uniformly,

wherein the die and the holding plate are made of a cemented carbide material obtained by being sintered at high temperature.

4. A jig for forming a honeycomb body according to claim 10 3, wherein the back holding plate is made of cemented carbide having wear resistance.

5. A jig for forming a honeycomb body according to claim 3 or 4, wherein only the portions, which are in contact with the kneaded clay, of the holding plate and the back 15 holding plate are made of cemented carbide having wear resistance.

6. (After amendment) A jig for forming a honeycomb body according to any one of claims 3 to 5, wherein the cemented carbide alloy is formed by compacting, followed by 20 sintering at high temperature, metal carbide powder of transition metal element series with an iron group metal binder having toughness.

7. (After amendment) A jig for forming a honeycomb body according to any one of claims 3 to 6, wherein the 25 connection area ratio of the back hole and the cell block is 35 to 65% of a surface area of the plate.

8. (After amendment) A jig for forming a honeycomb body

according to any one of claims 3 to 7, wherein a height of the slits defining the cell blocks is 2 to 5 mm.